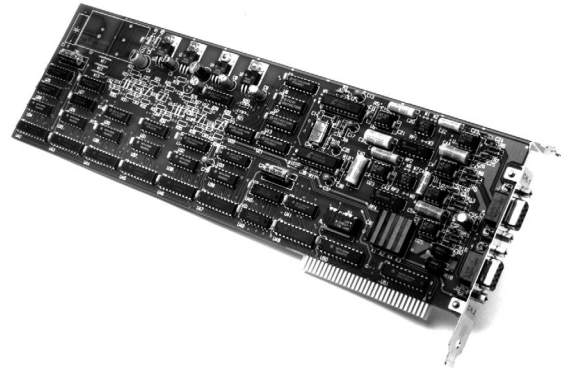


Model SCB1 Signal Conditioning Board 1 or 2 Channel

- **Nonlinearity <0.003% full scale**
- **20-bit resolution**
- **High thermal stability**
- **Shunt calibration, software selectable**
- **Single or dual channel versions**
- **Bipolar**
- **Isolated output**



The SCB1 signal conditioning board comes in a one or two-channel configuration. The single-channel unit is used with a dead weight system and/or for test machine verification, while the two-channel unit is used for calibrations where a reference (Standard) load cell is being used. One channel is connected to the reference standard and one channel is connected to the cell being calibrated.

ACCESSORIES

- CT-139-10 Interconnect cable (1600 type)
- CT-142-10 Interconnect cable (1000 type)
- CT-154-10 Interconnect cable (pigtailed)
- DA-101 Digital-Analog board, used with automated systems (consult factory)
- GS-USB Chassis to house Signal Conditioning Board(s)

Consult factory for more technical information

SPECIFICATIONS

EXCITATION

Excitation Voltage.....10 V DC
Current.....120 mA max

PERFORMANCE

Resolution 20 bits
Signal Input Range±2.5, ±5.0, or ±7.5 mV/V
Conversion Rate 8 readings/second
Nonlinearity <.003% full scale
Span Temperature Coefficient.....<10ppm/°C
Zero Temperature Coefficient<0.2 microvolt/°C
Span Stability—after warm up±.003% per 24 hrs.,
±.01% per year
Zero Stability—after warm up.....±10 microvolt/per year
Settling Time<0.25 sec to within .01%
Frequency Response5Hz (-3 dB points)
Input Resistance.....>100 megohm
Common mode rejection >90 dB
Common mode voltage re: signal±8 volts without damage
Common mode voltage re: ground±500 V peak without damage
(isolated version only)
Isolation Resistance>100 megohms to ground
Noise<0.3 μvolt typical, 0.6 μvolt max (digital filter ON)
<0.7 μvolt typical, 1.5 μvolt max (digital filter OFF)

ENVIRONMENTAL

Operating Temperature.....35 to 105°F
Relative Humidity – MAX80%
Power
DCPC BUS +5 V supply
Power Consumption.....10 watts max
Mechanical
Outline 3.75 x 14 x .75 in
(95 x 356 x 19 mm)
Full Size Card
Connector.....DE-9 Socket (1 per channel)